## Claims

## What is claimed is:

 A method for implementing enhanced examination of multiple samples comprising the steps of: providing a metal plate including a plurality of through holes arranged in a predefined pattern, a mounting opening, and an O-ring receiving recess

extending within said metal plate to said plurality of through holes:

inserting a plurality of sample holders, each within a selected one of said through holes; and

installing an O-ring within said O-ring receiving recess to provide a secure mounting of said plurality of sample holders.

- 2. A method for implementing enhanced examination of multiple samples as recited in claim 1 includes the step of mounting said metal plate to a stage holder; said stage holder having an upper portion extending above a base portion, and said upper portion inserted into said mounting opening of said metal plate.
- 3. A method for implementing enhanced examination of multiple samples as recited in claim 1 wherein the step of providing said metal plate includes the step of providing a metal plate formed of aluminum.
- 4. A method for implementing enhanced examination of multiple samples as recited in claim 1 wherein the step of providing said metal plate includes the step of providing a circular metal plate.
- 5. A method for implementing enhanced examination of multiple samples as recited in claim 1 wherein the step of providing said metal plate includes the step of providing a circular metal plate including said plurality of through holes arranged uniformly spaced apart along a common diameter.
- 6. A method for implementing enhanced examination of multiple samples as recited in claim 5 includes the step of providing said O-ring with a diameter less than said common diameter.

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1	<ol><li>A scanning electron microscope (SEM) holder apparatus for</li></ol>
2	implementing enhanced examination of multiple samples comprising:
3	a metal plate, said metal plate including a plurality of through holes
4	arranged in a predefined pattern, a mounting opening, and an O-ring
5	receiving recess extending within said metal plate to said plurality of through
6	holes;
7	a plurality of sample holders, each received within a selected one of
8	said plurality of through holes; and
9	an O-ring received within said O-ring receiving recess to provide a
10	secure mounting of said plurality of sample holders.
1	8. A scanning electron microscope (SEM) holder apparatus as
2	recited in claim 7 wherein said metal plate is formed of aluminum.
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1	<ol> <li>A scanning electron microscope (SEM) holder apparatus as</li> </ol>
2	recited in claim 7 includes a stage holder; said stage holder having an upper
3	portion extending above a base portion, and said upper portion inserted into
4	said mounting opening of said metal plate.
1	10. A scanning electron microscope (SEM) holder apparatus as
2	recited in claim 7 wherein each of said plurality of sample holders includes a
3	downwardly extending portion and an upper sample support portion; said
4	downwardly extending portion is inserted into said through hole and is
5	engaged by said O-ring.
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1	11. A scanning electron microscope (SEM) holder apparatus as
2	recited in claim 7 wherein said plurality of through holes is arranged
3	uniformly spaced apart along a common diameter.
1	12. A scanning electron microscope (SEM) holder apparatus as
2	recited in claim 11 wherein said O-ring has a selected diameter less than
3	said common diameter, whereby said O-ring protrudes partially into said
4	through holes.

A scanning electron microscope (SEM) holder apparatus as

recited in claim 7 wherein said metal plate is formed of circular member.

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1	<ol><li>A scanning electron microscope (SEM) holder apparatus as</li></ol>
2	recited in claim 7 wherein said metal plate is formed of circular aluminum
3	bar.

- 1 15. A scanning electron microscope (SEM) holder apparatus as recited in claim 14 wherein said metal plate has a diameter of about 3 inches.
- 1 16. A scanning electron microscope (SEM) holder apparatus as recited in claim 15 wherein said plurality of through holes is arranged uniformly spaced apart along a common diameter of about 2 inches.